

Material Safety Data Sheet Ammonium phosphate, monobasic

#### MSDS# 01345

# Section 1 - Chemical Product and Company Identification

**MSDS** Name:

Ammonium phosphate, monobasic

Catalog

AC193700000, AC193701000, AC193705000, AC201830000, AC201830010, AC201830025

Numbers:

AC201830025, AC201832500, AC423380000, AC423380050, AC423385000, A684-3, A684-500,

A685-500, A685J500, BP2427-500

Synonyms:

Ammonium dihydrogen phosphate; Phosphoric acid, monoammonium salt; Dihydrogen ammonium

phosphate.

Fisher Scientific

Company Identification:

One Reagent Lane Fair Lawn, NJ 07410

For information in the US, call: **Emergency Number US:** 

201-796-7100 201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 7722-76-1

Chemical Name: Ammonium dihydrogen phosphate

%: >98

EINECS#: 231-764-5

Hazard Symbols: None listed Risk Phrases: None listed

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW** 

Caution! May cause eye, skin, and respiratory tract irritation. Target Organs: None.

Potential Health Effects

Causes mild eye irritation. Eye: Skin: Causes slight skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid. Eyes:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical Skin:

aid if irritation develops and persists. Wash clothing before reuse.

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by Ingestion:

mouth to an unconscious person. Get medical aid.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation:

Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved

or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by General

thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Information:

Substance is noncombustible.

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Use water spray, Extinguishing

Media: dry chemical, carbon dioxide, or appropriate foam.

Autoignition Not applicable. Temperature:

Flash Point: Not applicable.

Explosion Not available Limits: Lower:

Explosion Not available Limits: Upper:

NFPA Rating: health: 2; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General

Use proper personal protective equipment as indicated in Section 8. Information:

Vacuum or sweep up material and place into a suitable disposal container. Reduce airborne dust and

Spills/Leaks: prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the

Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Wash thoroughly after handling. Wash thoroughly after handling. Minimize dust generation and accumulation.

Handling: Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use

with adequate ventilation. Wash clothing before reuse.

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible Storage:

substances.

## Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	
Ammonium dihydrogen    phosphate	none listed	none listed	none listed

### OSHA Vacated PELs: Ammonium dihydrogen phosphate: None listed

### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes:

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves to prevent skin exposure. Skin:

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or

European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: white

Odor: odorless

pH: 3.8-4.4 (5% soln)

Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available

Viscosity: Not appicable. Boiling Point: Not available

Freezing/Melting Point: 190 deg C ( 374.00°F)

Decomposition Temperature:

Solubility in water: Soluble in water.

Specific Gravity/Density: 1.8

Molecular Formula: NH4H2PO4 Molecular Weight: 115.03

Section 10 - Stability and Reactivity

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling

conditions. Stable in air.

Conditions to Avoid:

Dust generation, excess heat.

Incompatibilities with Other

Strong bases, sodium hypochlorite.

Materials

**Hazardous Decomposition** 

**Products** 

Oxides of phosphorus, nitrogen oxides (NOx) and ammonia (NH3).

Hazardous Polymerization

Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7722-76-1: None listed

LD50/LC50:

RTECS: Not available. Other: Dermal LD50 (rabbit): >7940 mg/kg, Oral LD50 (rat): 5750 mg/kg.

Carcinogenicity: Ammonium dihydrogen phosphate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

When too many nutrients such as phosphorus are in the water, algae grows maniacally. Algae blooms are followed Other: by a die-off, and as material decays, it consumes oxygen like a forest fire. No fish, plants or insects can live in oxygen-free zones.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

**US DOT** 

Shipping Name: Not regulated

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7722-76-1: 1

Canada

CAS# 7722-76-1 is listed on Canada's DSL List Canadian WHMIS Classifications: Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7722-76-1 is not listed on Canada's Ingredient Disclosure List.

US Federal

**TSCA** 

CAS# 7722-76-1 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 3/29/1999 Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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